

# General Specifications

GS 05P05A01-01EN

LL50A Parameter Setting Software  
with Ladder Program Building Function  
and Network Profile Creating Function

**UTAdvanced®**

Functional  
Enhancement

## ■ Overview

The LL50A Parameters Setting Software is designed to build and set parameters, program pattern, ladder programs, and the like of the UTAdvanced digital indicating controllers from a PC. The tuning and monitoring of ladder programs are possible during communication with the controllers.

## ■ Main Features

### A Variety of Connection Methods

In addition to a connection with a Light Loader (dedicated) adapter, connections with a communication terminal on the rear panel and a dedicated cable are available. As for the connection with a dedicated cable, settings can be made when the controller power is not energized.

### Parameter Setting Function

This function allows for setting and changing the parameters of the controller. In case of the UT75A, allows for setting the program pattern.

### Program Pattern Setting

This function allows for setting the program patterns of UP series program controllers. (UP55A, UP35A, and UP32A)  
Creates up to 99 program patterns for UP55A and up to 4 program patterns for UP35A/UP32A.

### Tuning Function

This function allows for adjusting the PID parameters while watching the PV, SP, and OUT trend graphs.  
(Except UM33A)

### Ladder Program Building Function

This function allows for building the input and output signal sequences of the controller using the ladder program. Various calculations are possible using basic and application commands. (Except UM33A)

### Network Profile Creating Function

This function enables to create an Electronic Device Data Sheet for PROFIBUS-DP communication.  
Excluding the dual-loop type of UT32A (UT32A-D).

## ■ Functions

Parameter setting function	Parameter setting, Display level switching
Program pattern creating	Repeat action, Wait action setting PV event, Time event setting
Ladder program building function	Ladder program building Custom ladder instruction building Program check
Custom display building function	The contents displayed on the screen of UT75A can be customized.
Monitoring function	Tuning, Register monitoring Ladder program monitoring
Network Profile Creating function	Profile creating
Other functions	File management Conserving function of CSV format Communication processing Upload/download Communication comparison Reset to factory default Reset to user default Communication condition setting, Print

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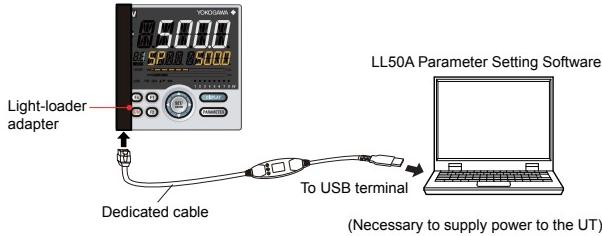
## ■ Applicable Controllers

UT75A digital indicating controller  
UT55A digital indicating controller  
UT52A digital indicating controller  
UT35A digital indicating controller  
UT32A digital indicating controller  
UP55A program controller  
UP35A program controller  
UP32A program controller  
UM33A digital indicator with alarms

## ■ Connection between PC and Controller

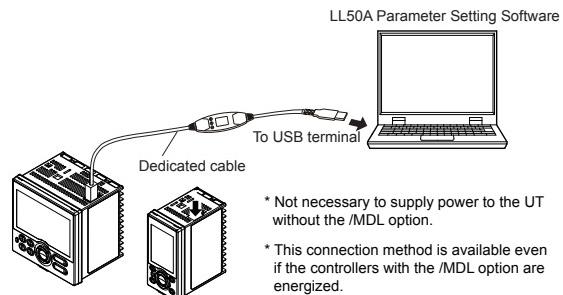
### Connection with a Dedicated Adapter

Connect the dedicated cable to the dedicated adapter and then attach the dedicated adapter to the front of the controller. (The adaptor cannot be used on the controllers with the /MDL option.)

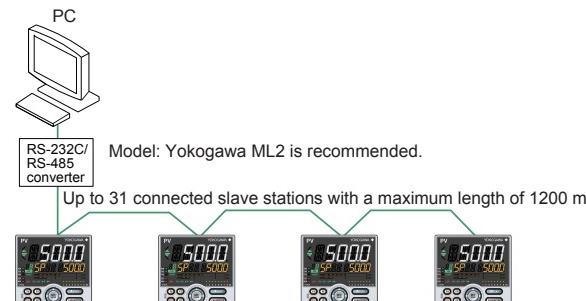


### Connection with Dedicated Cable

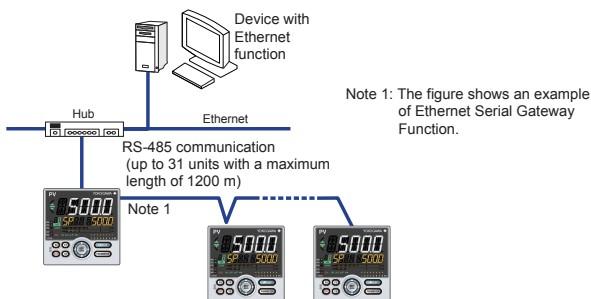
This connection allows for setting parameters, writing ladder programs, and the like when the controller is not energized.



## RS-485 Communication Terminal Connection



## Ethernet Communication Connection



An Ethernet connection is also possible using controllers with an RS-485 communication function and an Ethernet/RS-485 converter (Yokogawa VJET is recommended).

## ■ Operating Environment

### PC (System Requirements)

#### Operating system

- Windows 7 Professional (32-bit and 64-bit versions)
- Windows 8.1 Pro Update (32-bit and 64-bit versions)  
(Desktop type)

#### CPU

- Pentium 4 Processor 3.0 GHz or faster
- Pentium D Processor 2.6 GHz or faster
- Pentium Core 2 Duo Processor 1.8 GHz or faster
- Pentium Dual-Core Processor 1.6 GHz or faster

#### Main Memory

- 2 GB or more

#### Hard Disk

- Program storage capacity: 100 MB or more
- .NET Framework 4.0-SP1 storage capacity: 620 MB or more

#### Display

- 1024 x 768 pixels or more
- Color: 256 colors or more

#### Communication port

- Communication with a dedicated cable: USB port (1 channel)
- RS-485 communication: RS-232C port(1 channel). To perform RS-422/485 communication with a connected device, use a converter. (YOKOGAWA ML2 recommended)
- Ethernet communication: 10BASE-T/100BASE-TX.

#### Peripherals

- CD-ROM drive (to install the software.)
- Printer (paper size for print: A4-size, or letter-size on the English version.)

### Dedicated Adapter

#### Communication method:

- Non-contact, two-way, serial optical communication on the controller side

#### Power supply:

- Supplied from the USB bus power
- Rated input voltage: 4.75 to 5.25 V DC, 100 mA DC (including the dedicated cable)

#### Ambient temperature:

- 0 to 50°C

#### Ambient humidity:

- 20 to 90%RH (No condensation)

#### Transport and storage conditions:

- 20 to 70°C, 5 to 90%RH (No condensation)

#### Dust-proof and drip-proof:

- Unsupported

## Dedicated Cable

USB serial converter is embeded

Compliant with the USB Specification Rev. 1.1

USB Series "A" plug on the PC side

Dedicated plug (5-pin) on the adapter side

Cable length: About 2.7 m

Note: Directly insert the USB plug into a USB port on the PC.

## ■ EMC Standard

CE marking: EN61326-1 Class A, Table 2

(For use in industrial locations)

EMC Regulatory Arrangement in Australia and New Zealand: EN55011 Class A, Group 1

## ■ Package Items

CDs: Two

LL50A software/USB conversion driver

LL50A User's Manual

LL50A Installation Manual: One

Dedicated cable and dedicated adapter: One

## ■ Model and Suffix Codes

Model	Suffix code	Description
LL50A	-00	Parameter Setting Software with Ladder Program Building Function

## ■ Items to Specify when Ordering

Clearly state the model and suffix code.

### User's Manual

Product user's manuals can be downloaded or viewed at the following URL. To view the user's manual, you need to use Adobe Reader 7 or later by Adobe Systems.

URL: <http://www.yokogawa.co.jp/ns/ut/im/>

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